

FIG.1A

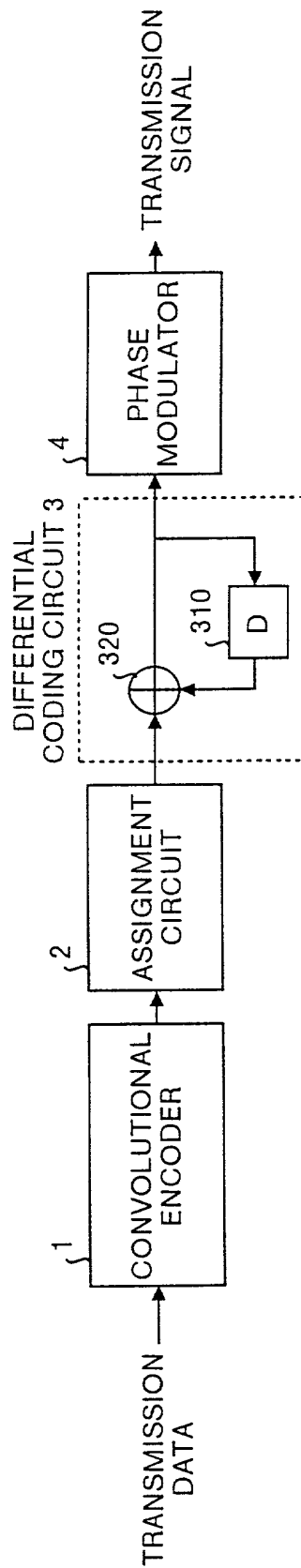


FIG.1B

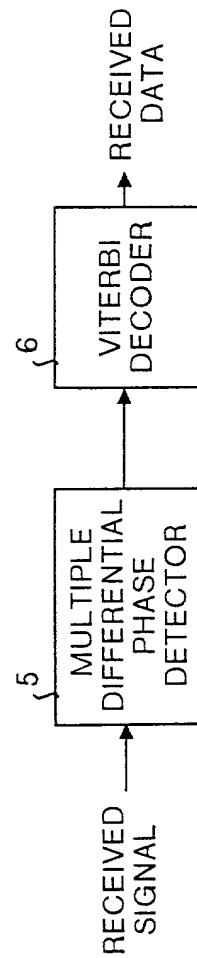


FIG.2

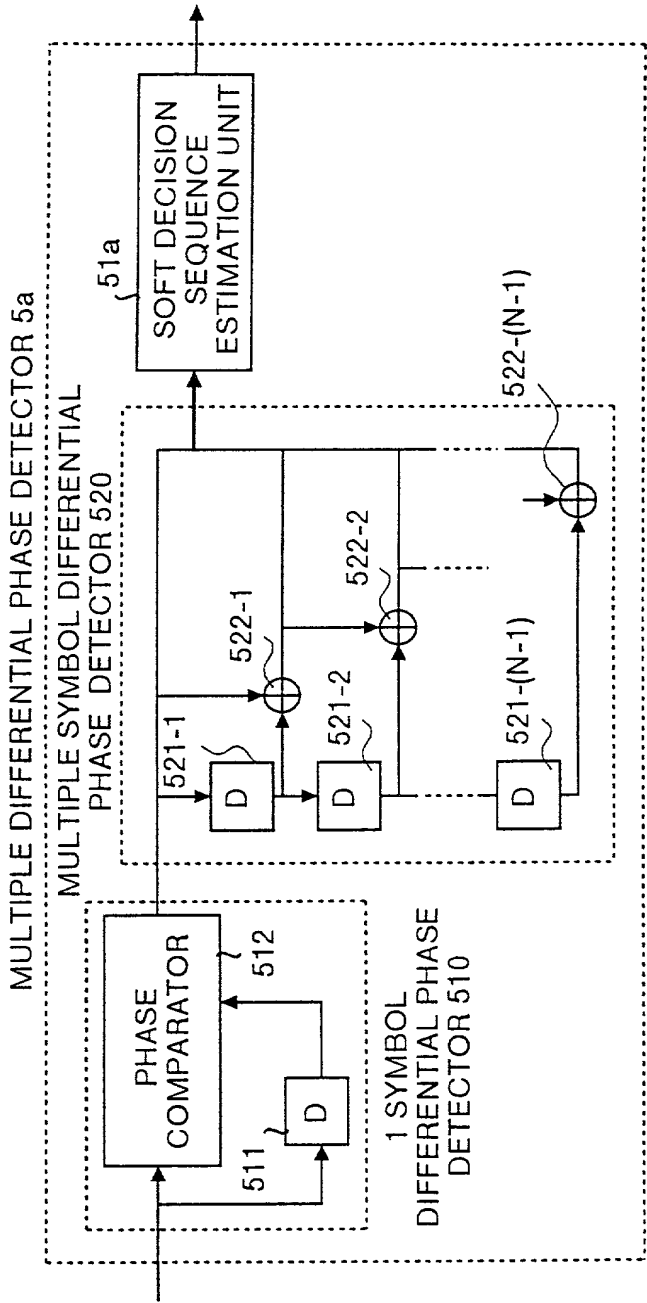


FIG.3

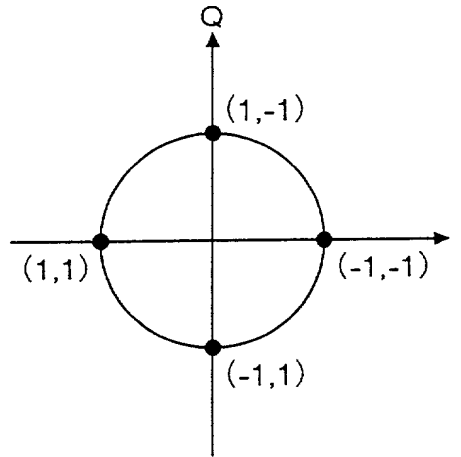
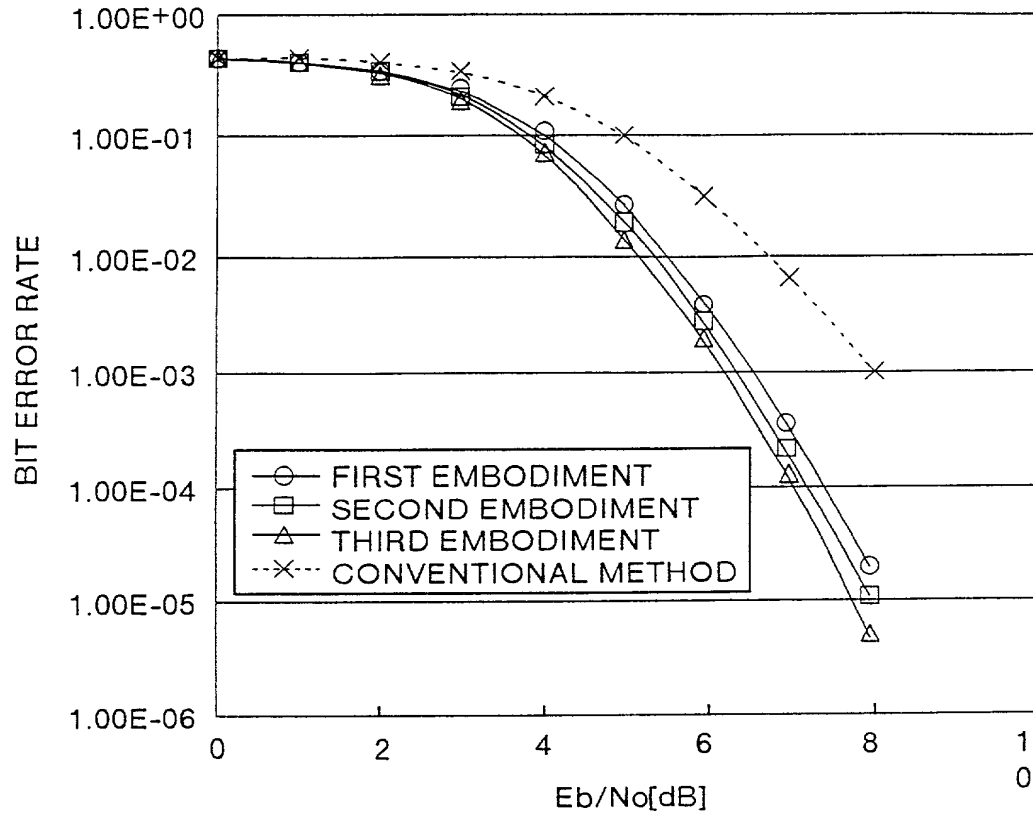


FIG.4

	$\Delta \theta_i$		$\Delta \theta_i$	CONVOLUTIONAL -CODED DATA
STATE 0	0		0	(-1,-1)
STATE 1	$\pi/2$		$\pi/2$	(1,-1)
STATE 2	π		π	(1,1)
STATE 3	$3\pi/2$		$3\pi/2$	(-1,1)

FIG.5



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FIG. 6

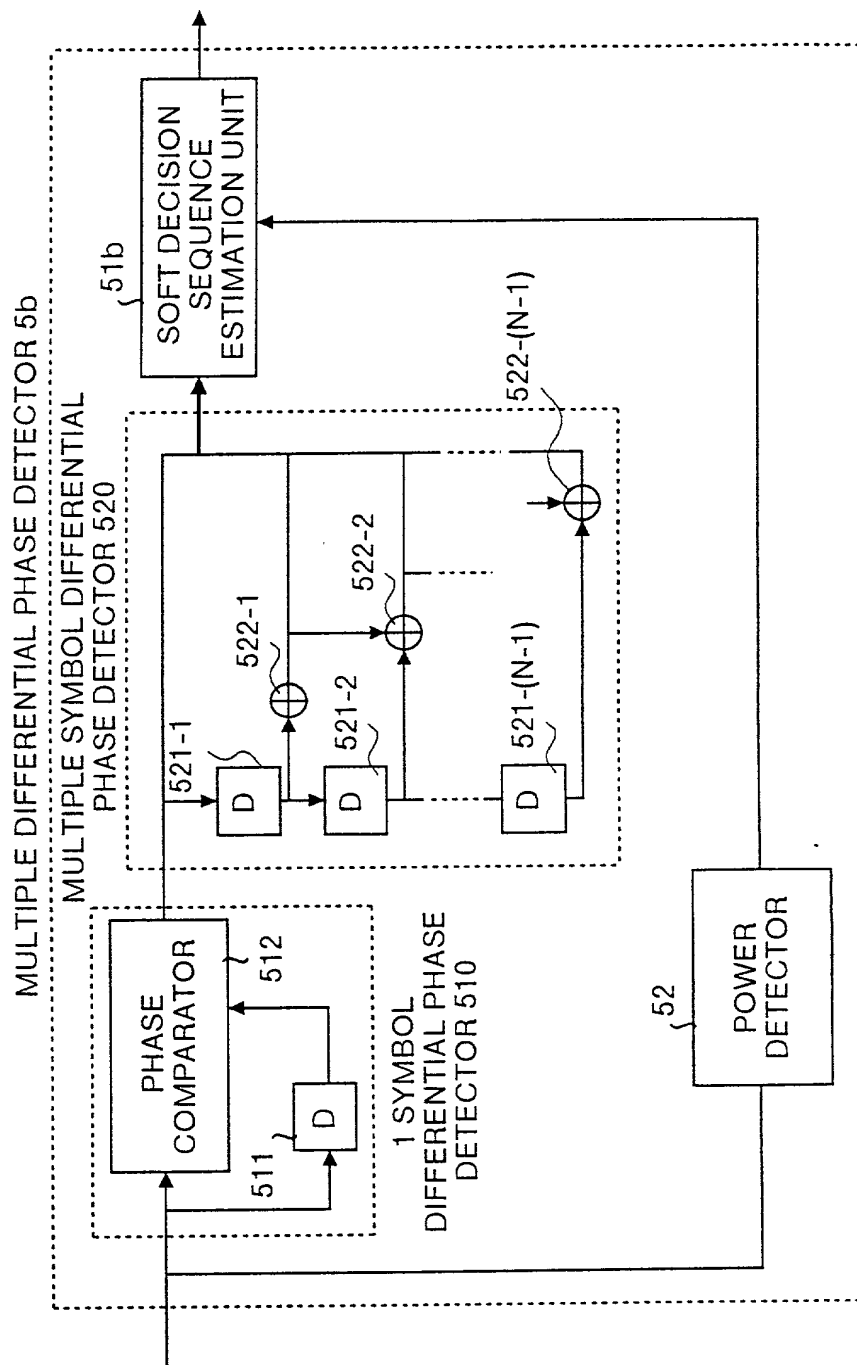


FIG. 7

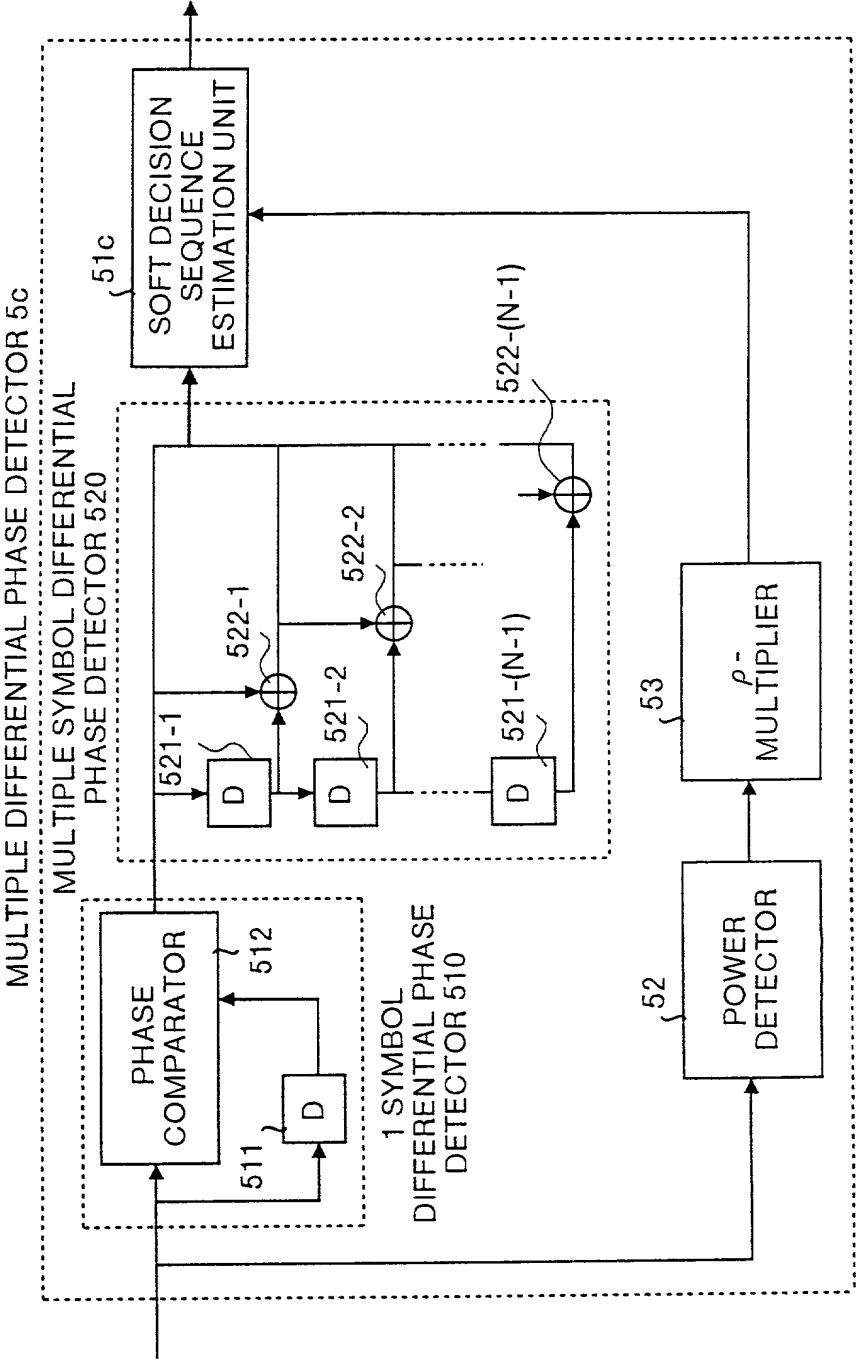


FIG.8A

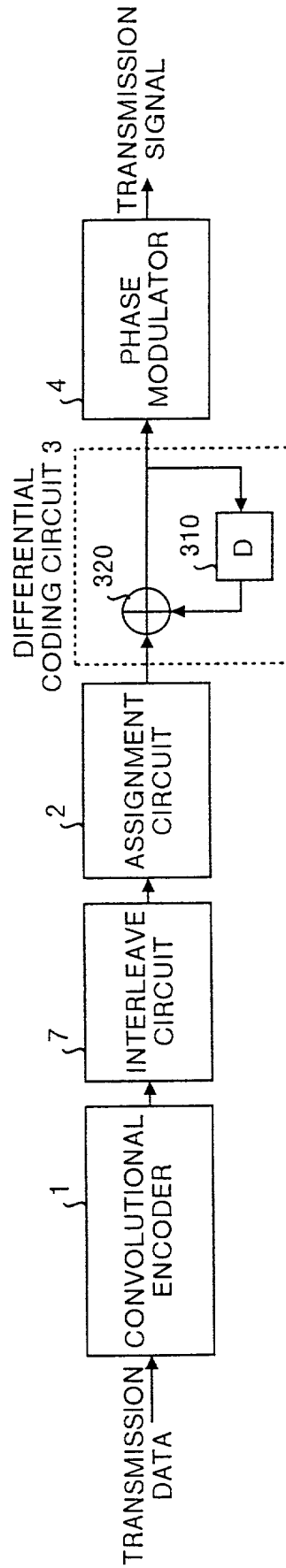


FIG.8B

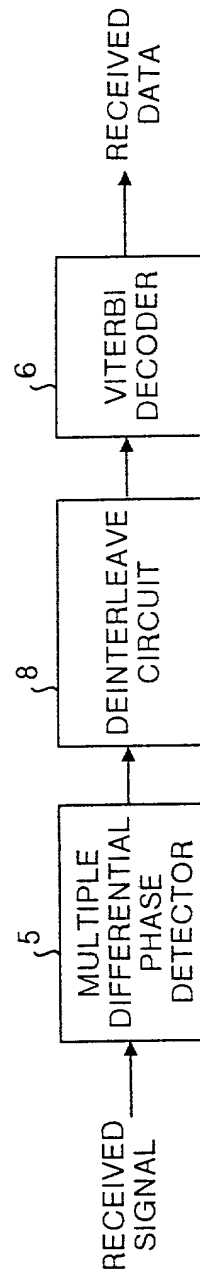


FIG.9

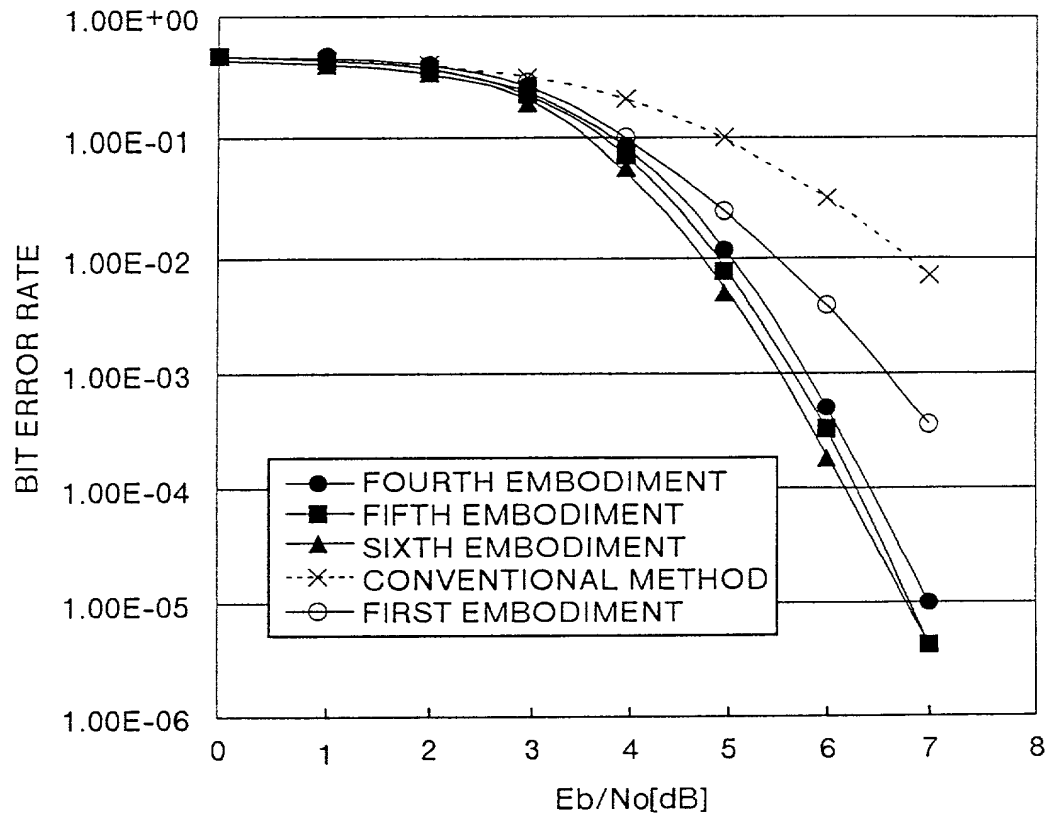
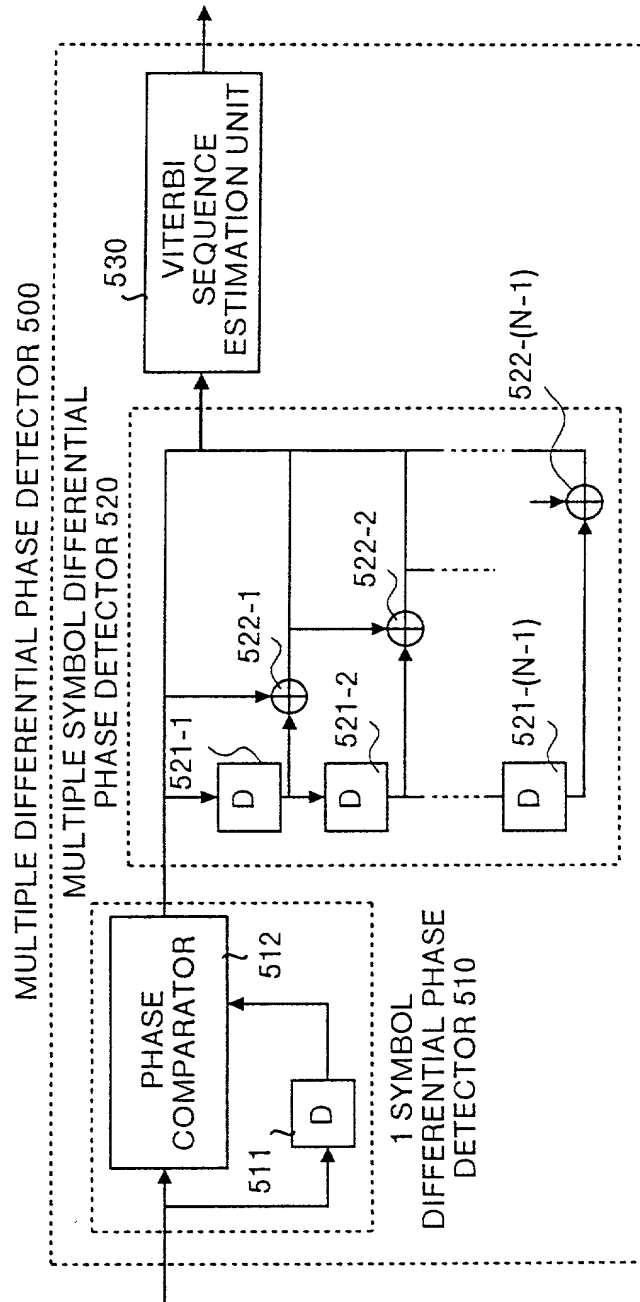


FIG.10



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FIG.11

(P_i, Q_i)	$\Delta \theta = F(P_i, Q_i)$
$(-1, -1)$	0
$(-1, 1)$	$\pi / 2$
$(1, 1)$	π
$(1, -1)$	$3 \pi / 2$